

and a complete listing of all claims as amended through this amendment is included on pages 17-28.

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19. (Amended) Mateable electrical connectors comprising:

a first electrical connector having an insulative housing which carries signal contacts and power contacts;

each power contact having a body portion and contact fingers extending therefrom in a cantilevered and opposed relationship, the contact fingers further having resiliently deflectable bowed portions;

a second electrical connector having an insulative housing which carries mating signal contacts and mating power contacts for mating with the signal contacts and power contacts, respectively, of the first electrical connector;

the mating power contacts receiving the contact fingers of the power contacts of the first connector therein, whereby the cantilevered contact fingers deflect inwardly upon mating.

B ~ 23. (Amended) Mateable electrical connectors comprising:

a first and a second electrical connector having mateable signal contacts and at least one first power contact mateable with at least one second power contact;

the first power contact having opposed contact fingers extending from a first body portion and the second power contact having opposed contact surfaces;

the first electrical connector having a shrouded housing portion surrounding the at least one

power contact;

the second electrical connector having a housing complementary with said first electrical connector, thereby receiving the shrouded housing portion and the at least one power contact therein;

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wherein the opposed contact fingers of the first power contact are received between the opposed contact surfaces of the second power contact such that the contact fingers resiliently deflect inwardly and exert pressure on the opposed contact surfaces.

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30. (Amended) An electrical connector comprising:
an insulative housing carrying signal contacts and power contacts,

the power contacts having opposed contact fingers which extend from a body portion in a cantilevered manner, the opposed contact fingers being inwardly deflectable upon mating within a mating power contact of a mating electrical connector,

wherein the power contacts have a surface area greater than a surface area of the signal contacts in order to effectively radiate heat resulting from electrical power dissipation.

B4 38. (Amended) An electrical connector assembly, comprising:

a first electrical connector comprised of an insulative housing having a front mating face with both signal contacts and power contacts positioned within the housing, the signal contacts being positioned within the housing with mating contact portions adjacent said front mating face, and said power contacts being profiled as male contacts having a contact section comprised of opposed contact arms interconnected along a side edge thereof with at least one portion extending forwardly from each of said contact arms to define contact fingers positioned adjacent said front mating face;

a second electrical connector profiled for mating with said first electrical connector, said second electrical connector including a housing complementary with said first electrical connector, and including signal and power contacts which are complementary with respective signal and power contacts of said first electrical connector, said power contacts of said second electrical connector being profiled as female contacts having contact portions profiled for overlapping engagement with said contact fingers of said first connector; and

wherein said first and second connectors each comprise a like plurality of rows and columns of contact receiving cavities having signal contacts positioned therein, said power contacts of said first and second connectors have greater mass than said signal contacts of said first and second connectors, and said power contacts of said first and second connectors are positioned in power contact receiving cavities which occupy the transverse envelope of a plurality of rows of signal contacts.

47. (Amended) The electrical connector assembly of claim 38, wherein said opposed contact arms of the power contacts of said first electrical connector are formed as planar sections, substantially parallel to each other.

BS 48. (Amended) The electrical connector assembly of claim 38, wherein said female contacts of said second electrical connector are formed as planar sections, substantially parallel to each other.
